

WHAT IS CLAIMED IS:

1. A composition for treatment and repair and for reducing the inflammation of connective tissue in humans and animals comprising S-Adenosylmethionine in combination with fragments of a glycosaminoglycan selected from the group consisting of chondroitin, chondroitin salts and mixtures thereof.

2. The composition of claim 1, wherein a dose of the fragments of a glycosaminoglycan ranges from about 15 mg to about 30,000 mg.

3. The composition ~~of claim 1~~, wherein a dose of the fragments of a glycosaminoglycan for humans and small animals ranges from about 15 mg to about 5,000 mg.

4. The composition of claim 1, wherein a dose of the fragments of a glycosaminoglycan for large animals ranges from about 100 mg to about 30,000 mg.

5. The composition of claim 1, wherein a dose of the S-Adenosylmethionine ranges from about 2 mg to about 20,000 mg.

6. The composition of claim 1, wherein a dose of the S-Adenosylmethionine for humans and small animals ranges from about 5 mg to about 5,000 mg.

7. The composition of claim 1, wherein a dose of the S-Adenosylmethionine for large animals ranges from about 2 mg to about 20,000 mg.

8. A composition for treatment and repair and for reducing the inflammation of connective tissue in humans and animals comprising: an aminosugar selected from the group consisting of glucosamine, glucosamine salts and mixtures thereof, in combination with S-adenosylmethionine.

9. The composition of claim 8, wherein a dose of the aminosugar ranges from about 50 mg to about 40,000 mg, and wherein a dose of the S-Adenosylmethionine ranges from about 2 mg to about 20,000 mg.

10. The composition of claim 8, wherein a dose of the aminosugar for humans and small animals ranges from about 50 mg to about 5,000 mg, and wherein a dose of the S-Adenosylmethionine for humans and small animals ranges from about 5 mg to about 5,000 mg.

11. The composition of claim 8, wherein a dose of the aminosugar for large animals ranges from about 250 mg to about 40,000 mg, and wherein a dose of the S-Adenosylmethionine for large animals ranges from about 2 mg to about 20,000 mg.

12. A method for the treatment and repair and for reducing the inflammation of connective tissue in humans and animals comprising the step of administering any one of the compositions of <sup>any of claims</sup> ~~claim 1~~ to claim 11 inclusive, to a human or an animal.

13. The composition of claim 8, wherein the salt of glucosamine is selected from the group consisting of glucosamine hydrochloride, glucosamine sulfate, and N-acetylglucosamine.